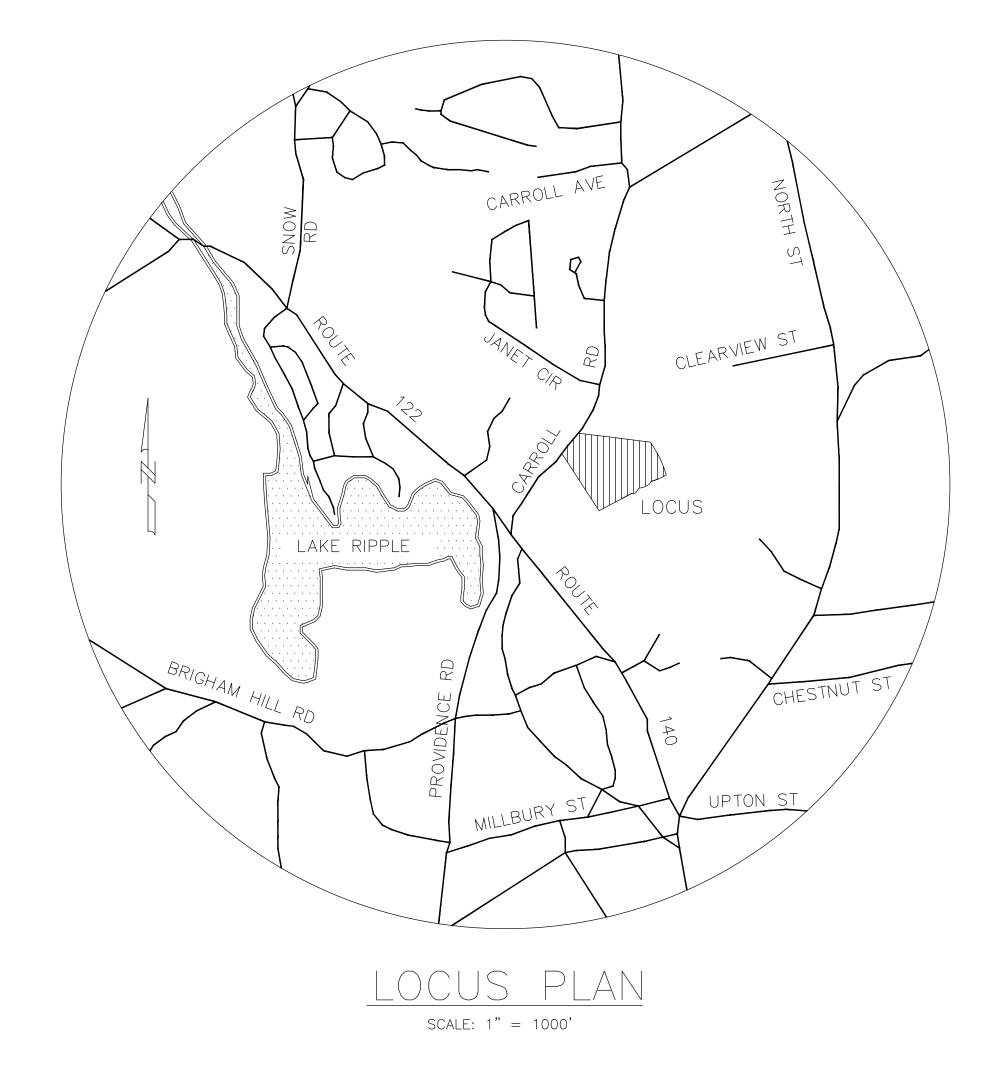


18 CARROLL ROAD A DEFINITIVE SUBDIVISION IN NORTH GRAFTON, MASSACHUSETTS

[CONVENTIONAL — DEVELOPMENT]



RECORD OWNER / SUBDIVIDER:

CENTRAL MASSACHUSETTS

HOME BUILDERS LLC

125 OLEAN STREET

WORCESTER, MA 01602

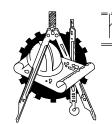
ENVIRONMENTAL CONSULTANTS:

ROBERT G. MURPHY & ASSOCIATES, INC ENVIRONMENTAL CONSULTANTS

214 WORCESTER STREET

NORTH GRAFTON, MA 01536

SURVEYOR / ENGINEER:



PROFESSIONAL CIVIL ENGINEERS & LAND SURVEYORS
75 HAMMOND STREET - 2ND FLOOR
WORCESTER, MASSACHUSETTS 01610-1723
PHONE: 508-757-4944 EMAIL: INFO@HSTGROUP.NET
FAX: 508-752-8895 WWW.HSTGROUP.NET

DEED REFERENCE(S): W.D.R.D. BK.43213 PG.4

PLAN REFERENCE(S): W.D.R.D. P.B.400 PLN.47

SHEET INDEX

TITLE
COVER SHEET

LOT LAYOUT (1 OF 2)

LOT LAYOUT (2 OF 2)

EXISTING CONDITIONS

GRADING SCHEME

OF PLAN/PROFILE

BET NUMBER

1

A-5

EXISTING CONDITIONS

A-5

GRADING SCHEME

BET NUMBER

A-5

A-5

A-5

BEXISTING CONDITIONS

A-15

BEXISTING CONDITIONS

NOTES:

- 1. THIS PLAN IS PREPARED IN ACCORDANCE WITH A MAJOR RESIDENTIAL SPECIAL PERMIT GRANTED BY THE GRAFTON PLANNING BOARD ON 1/25/11, AND RECORDED IN THE WORCESTER DISTRICT REGISTRY OF DEEDS IN BOOK 47336, PAGE 90.
- 2. SUBJECT TO COVENANT DATED , AND RECORDED AT WORCESTER DISTRICT REGISTRY OF DEEDS IN BOOK , PAGE . INSTRUMENT #
- 3. SEE DEFINITIVE SUBDIVISION SHEET OF FOR PLANNING BOARD CONDITIONS OF APPROVAL.

CERTIFICATE OF NO APPEAL

DECISION OF THE GRAFTON PLANNING BOARD APPROVING THIS PLAN RECORDED IN THE OFFICE OF THE TOWN CLERK

NO NOTICE OF APPEAL THEREFROM WAS RECEIVED BY THE TOWN CLERK DURING THE 20 DAYS FOLLOWING.

TOWN CLERK

DATE

DEEDS OF EASEMENTS TO BE RECORDED HEREWITH.

PLANNING BOARD

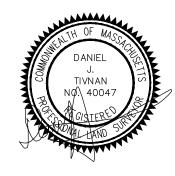
APPROVAL UNDER THE SUBDIVISION

CONTROL LAW IS REQUIRED

CONTROL LAW IS REQUIRED

DATE: BEING A MAJORITY OF THE BOARD







PROFESSIONAL CIVIL ENGINEERS & LAND SURVEYORS
75 HAMMOND STREET - 2ND FLOOR

75 HAMMOND STREET – 2ND FLOOR
WORCESTER, MASSACHUSETTS 01610–1723
PHONE: 508–757–4944 EMAIL: INFO@HSTGROUP.NET
FAX: 508–752–8895 WWW.HSTGROUP.NET

ABBY WOODS

APPLICANT/OWNER: CENTRAL MASSACHUSETTS HOME BUILDERS LLC 125 OLEAN STREET WORCESTER, MA 01602

ELD:	DJT	DATE:	02/11/2020	FLD.BOOK:	307B	
OMP'D:	DJT	SCALE:	NO SCALE	FLD.PAGE:	48	
AD:	LLW	ZONE:	R-20	CARRWRK2-DEF-RE	EV.DWG	
HECKED:	DJT, HH	JOB#:	2650	DWG#:	4391	
COVER SHEET						

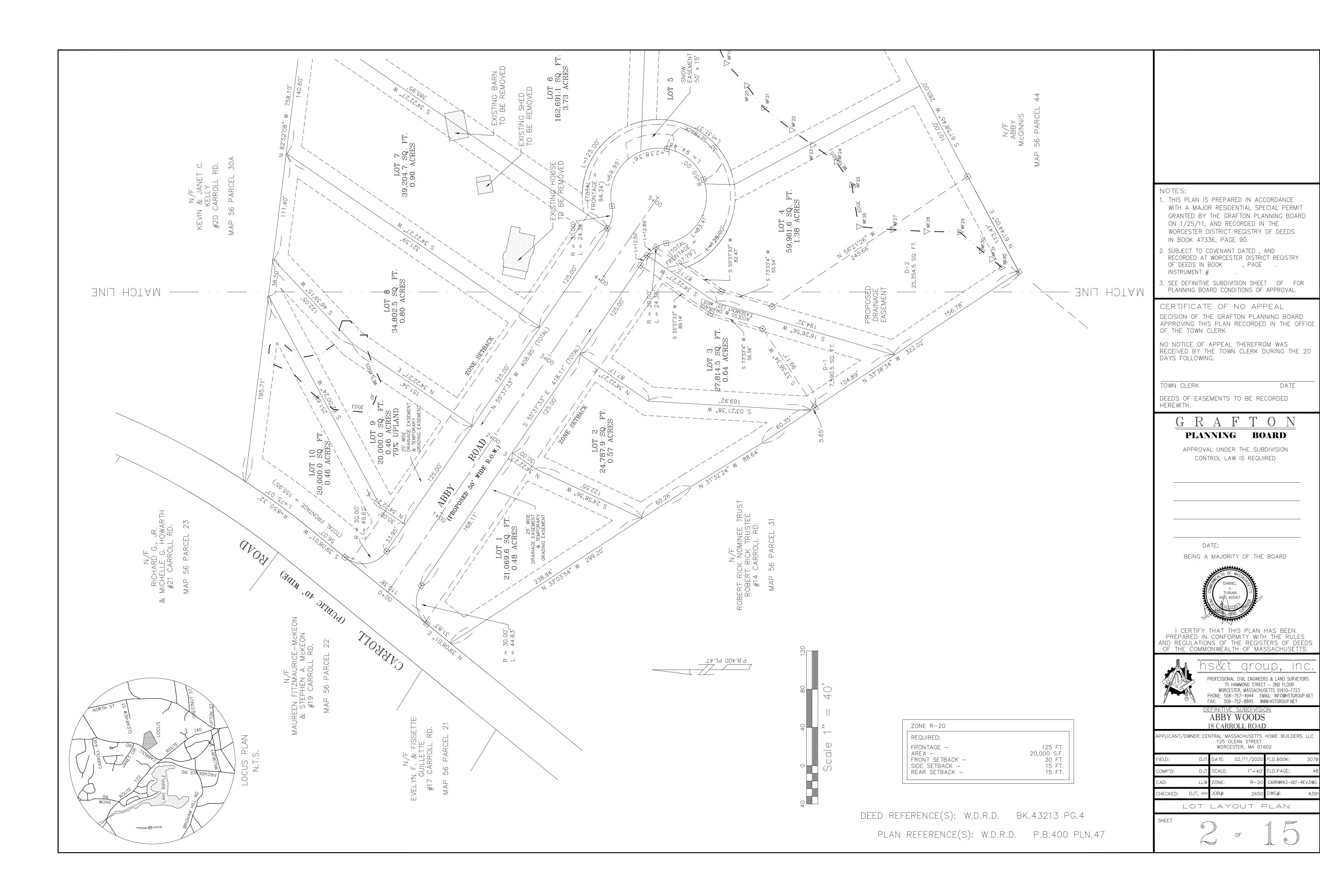
SHEET

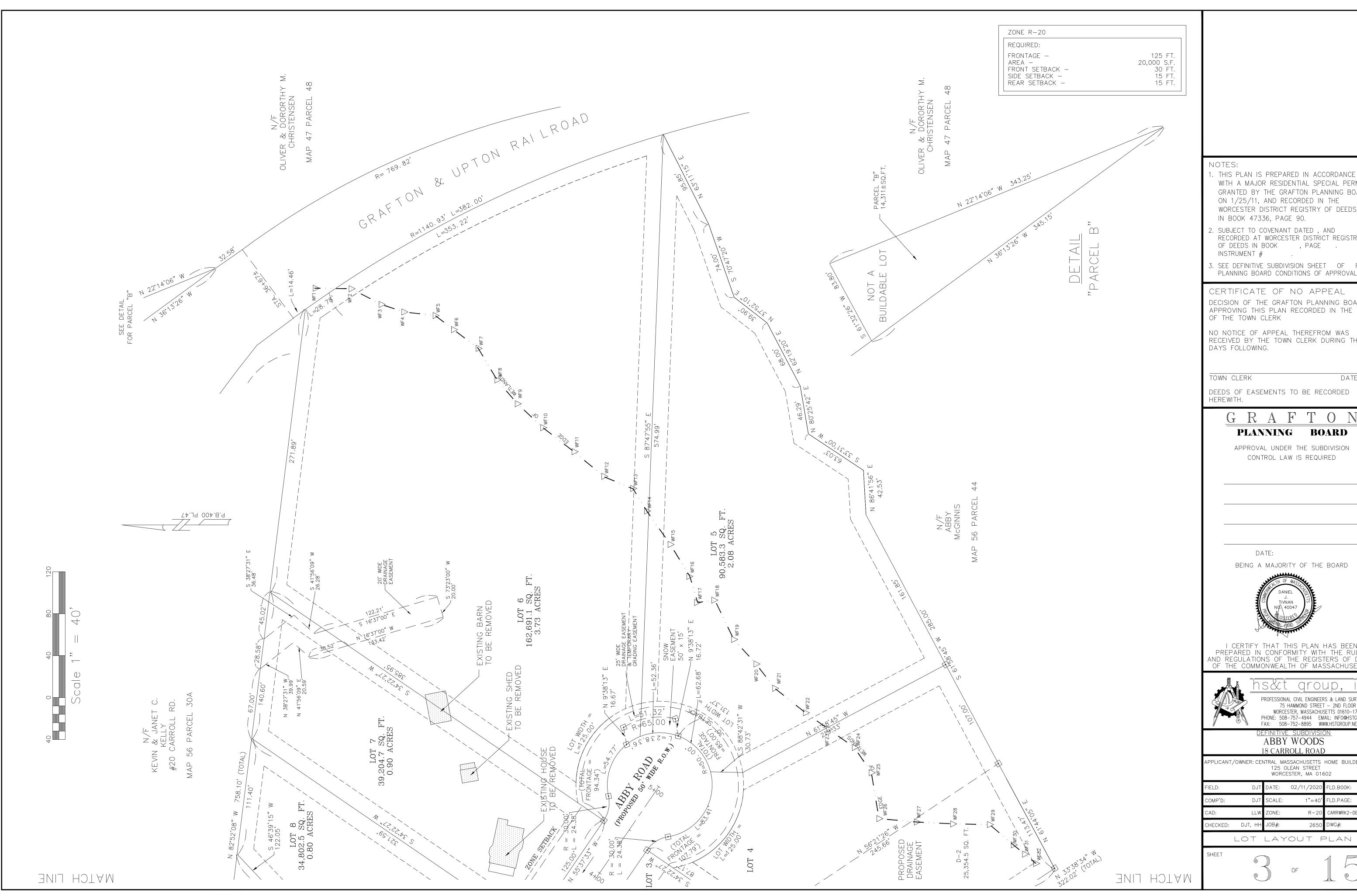
OF J



COPY

FINAL 08-03-2020





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I CERTIFY THAT THIS PLAN HAS BEEN PREPARED IN CONFORMITY WITH THE RULES AND REGULATIONS OF THE REGISTERS OF DEEDS OF THE COMMONWEALTH OF MASSACHUSETTS.



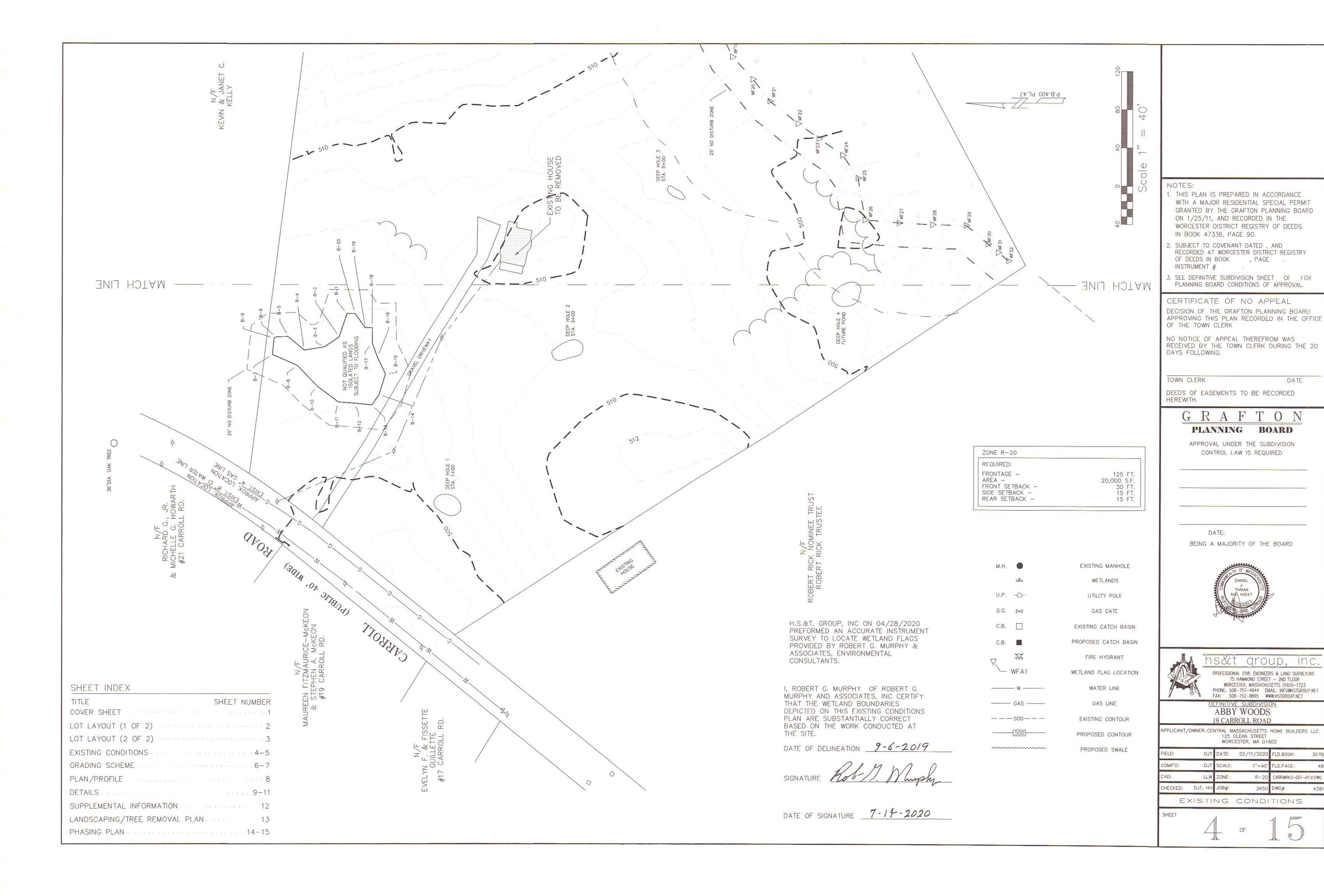
ns&t group, inc.

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ABBY WOODS
18 CARROLL ROAD

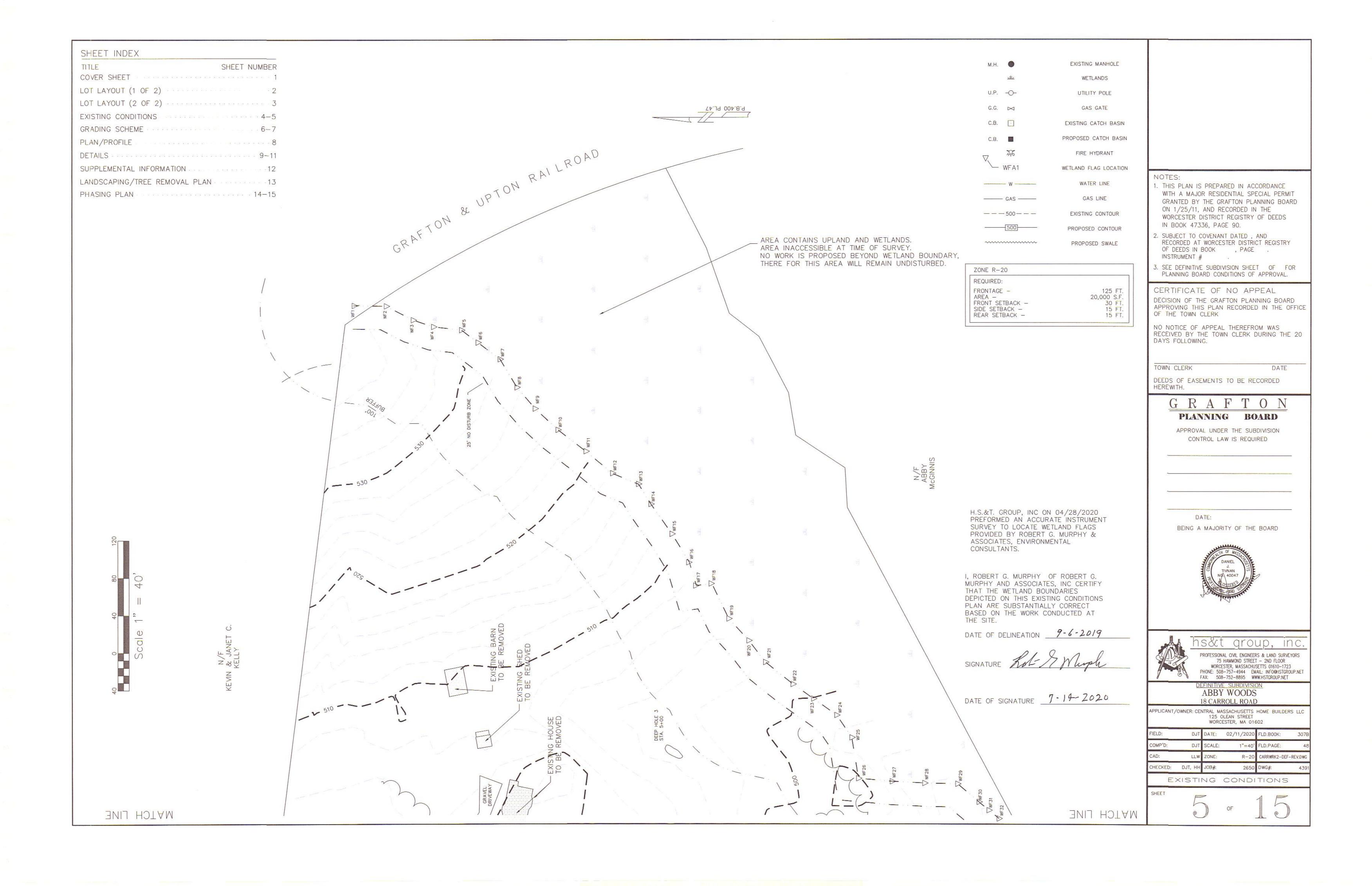
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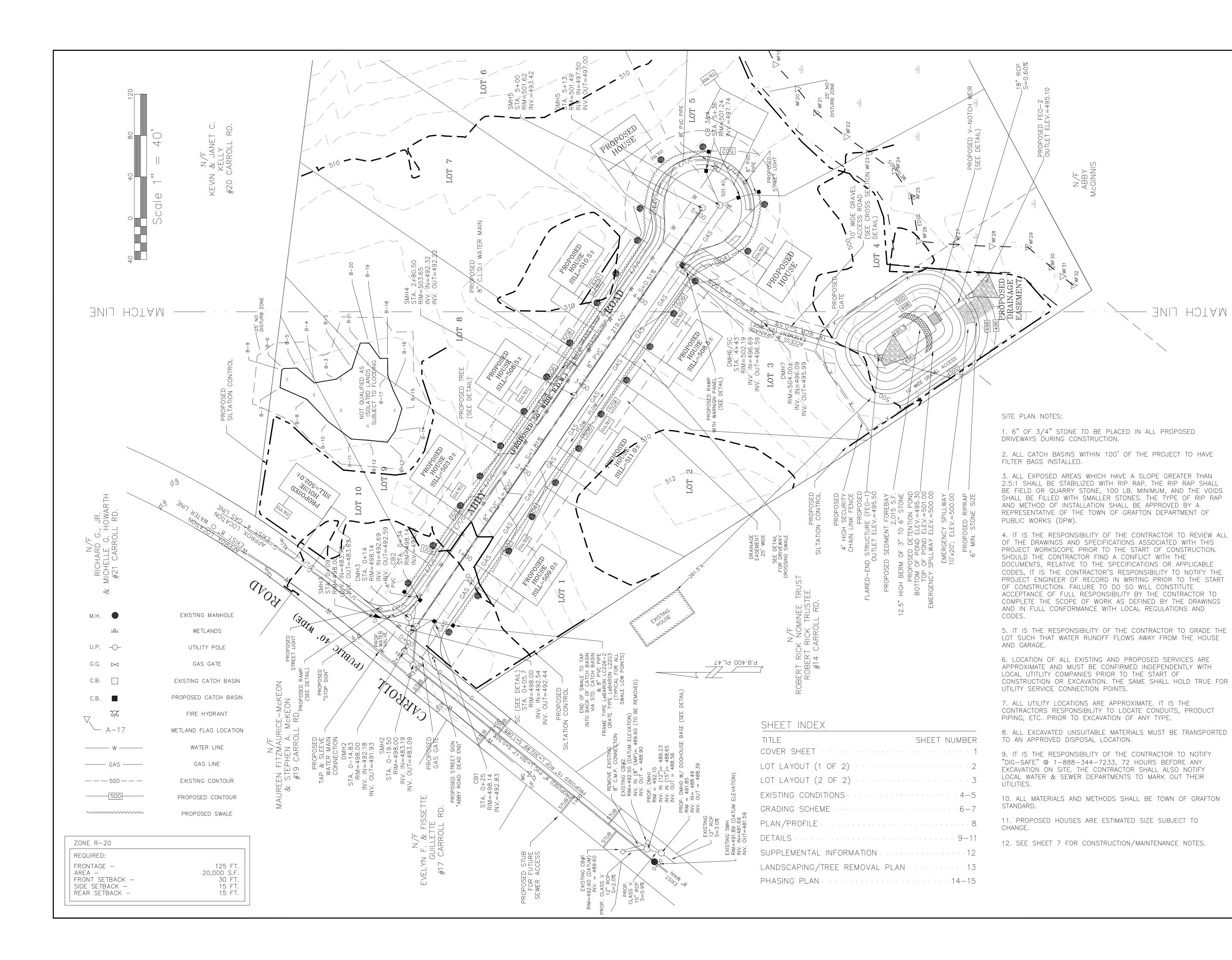
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CAD:	LLW	ZONE:	R-20	CARRWRK2-DEF-	REV.DWG
CHECKED:	DJT, HH	JOB#:	2650	DWG#:	4391



DATE

CARRWRK2-DEF-REV.DWG





MATCH LINE

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hs&t group, inc.

PROFESSIONAL CIVIL ENGINEERS & LAND SURVEYORS 75 HAMMOND STREET - 2ND FLOOR WORCESTER, MASSACHUSETTS 01610-1723 PHONE: 508-757-4944 EMAIL: INFO@HSTGROUP.NET FAX: 508-752-8895 WWW.HSTGROUP.NET

ABBY WOODS 18 CARROLL ROAD

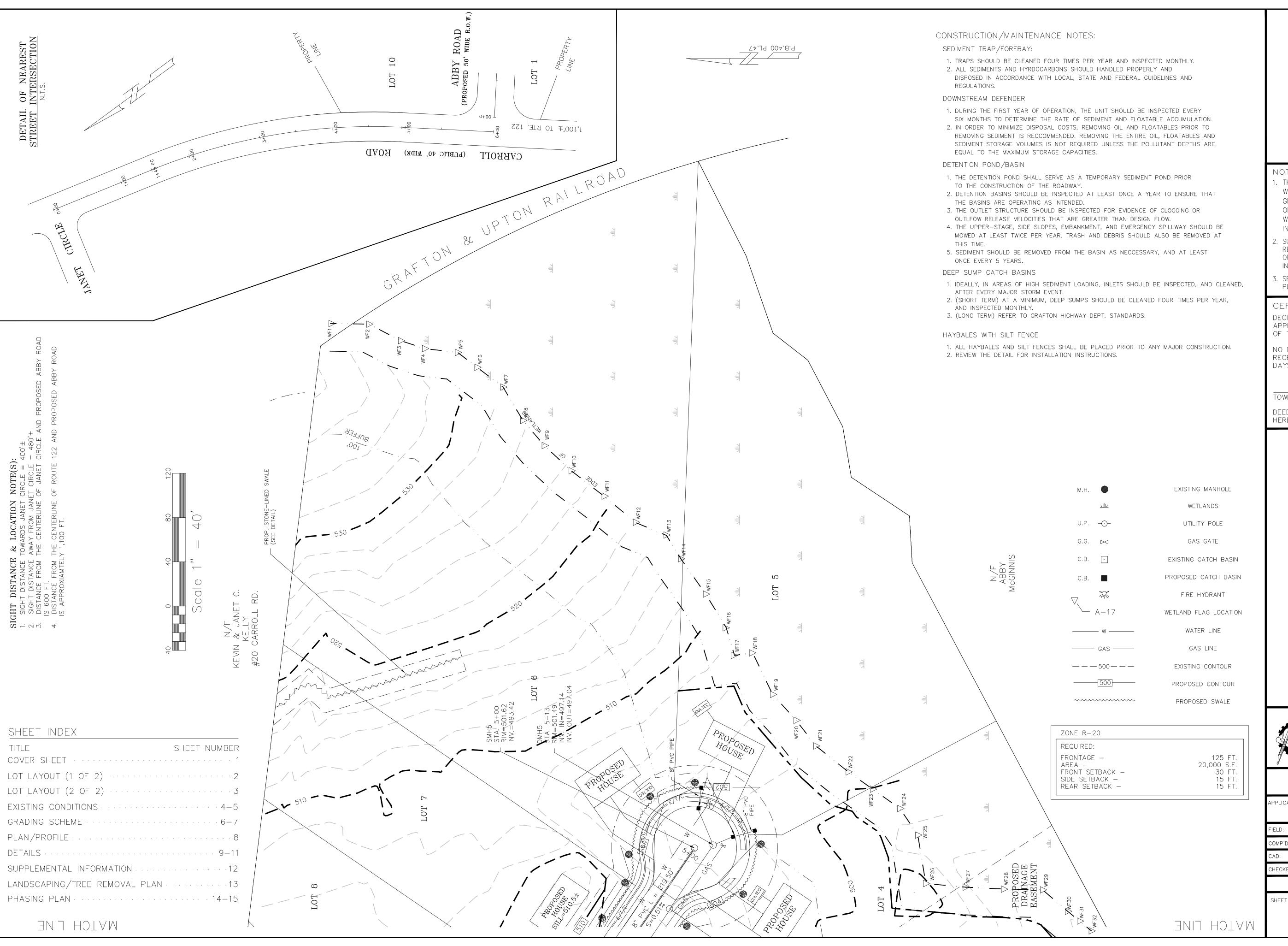
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WORCESTER, MA 01602

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GRADING SCHEME





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CONTROL LAW IS REQUIRED

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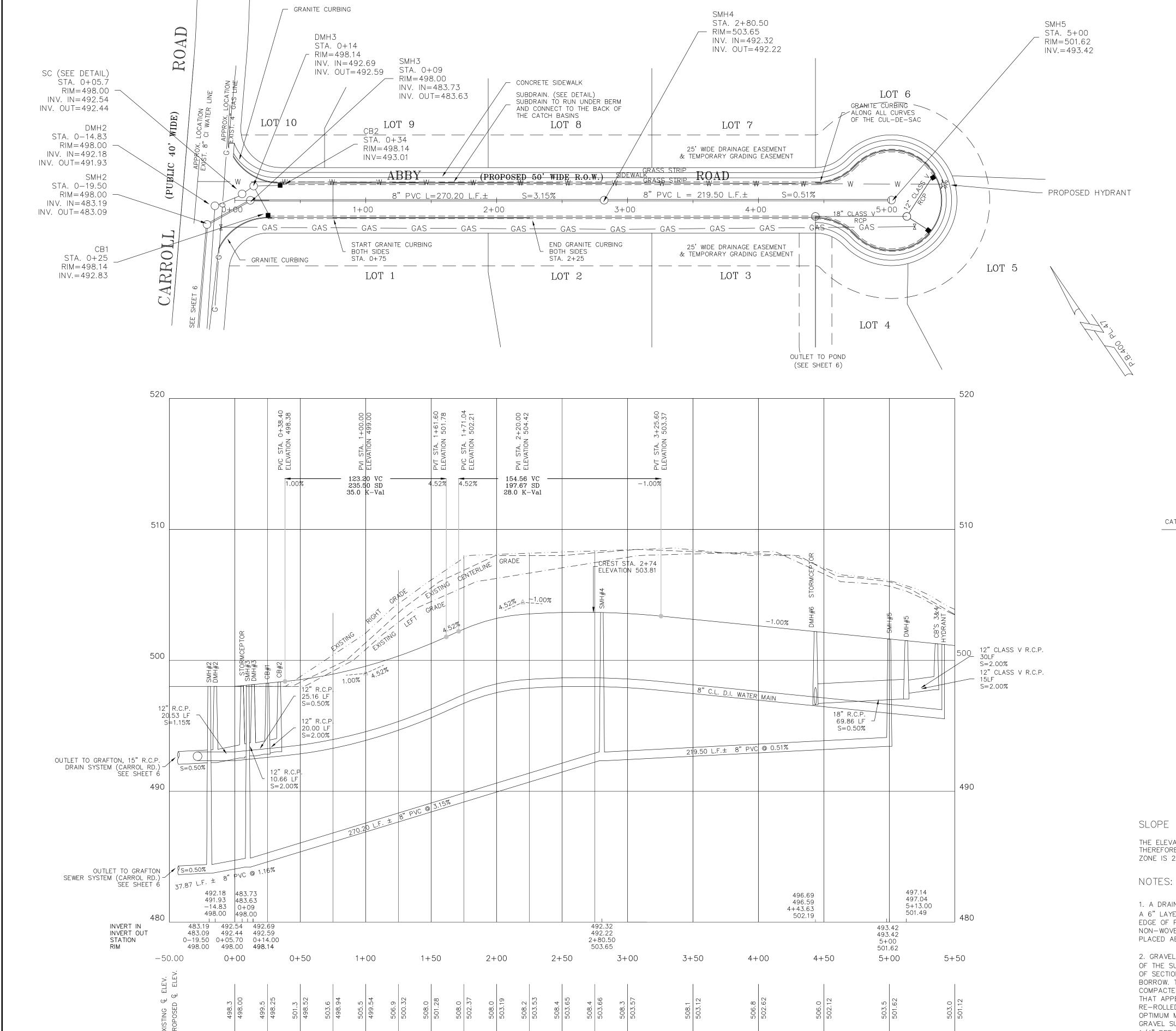
ns&t group, inc.

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ABBY WOODS 18 CARROLL ROAD

APPLICANT/OWNER: CENTRAL MASSACHUSETTS HOME BUILDERS LLC 125 OLEAN STREET WORCESTER, MA 01602

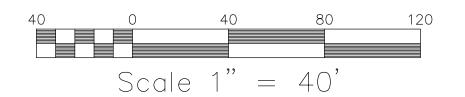
CARRWRK2-DEF-REV.DW GRADING SCHEME



PROFILE ALONG ABBY ROAD

VERTICAL SCALE: 1" = 4" HORIZONTAL SCALE: 1" = 40"

SHEET INDEX



CATCH BASIN ID	STATION	RIM EL.	INVERT EL.
CB #1	0+25	498.14	492.83
CB #2	0+34	498.14	493.01
CB #3	5+36	501.26	497.14
CB #4	5+36	501.26	497.14

SLOPE IN LEVELING ZONE:

THE ELEVATION CHANGE BETWEEN STATION 0+99 AND 1+00 IS 0.027. THEREFORE THE PERCENT SLOPE FOR THE LAST FOOT OF THE LEVELING ZONE IS 2.7%. THE MAXIMUM ALLOWABLE SLOPE IS 3%.

1. A DRAINAGE LAYER SHALL BE INSTALLED UNDER THE GRAVEL SUB-BASE AND CONSIST OF A 6" LAYER OF CRUSHED STONE, 3/4" GRADATION. THE LAYER WILL EXTEND FROM ONE EDGE OF PAVEMENT TO THE OTHER AND TERMINATE AT A SUBDRAIN. A SYNTHETIC, NON-WOVEN GEOTEXTILE FABRIC WITH GEOTEXTILE OPENING SIZE OF 0.21mm SHALL BE PLACED ABOVE AND BELOW THE DRAINAGE LAYER.

2. GRAVEL SUB-BASE: STONES NO GREATER THAN 3" SHALL BE SPREAD ON THE SURFACE OF THE SUB-GRADE TO A MINIMUM DEPTH OF 12" IN CONFORMITY WITH THE REQUIREMENTS OF SECTION M. 1.03.0 TYPE b OF THE STANDARD SPECIFICATIONS FOR FURNISHING GRAVEL BORROW. THIS LAYER SHALL BE ROLLED WITH NOT LESS THAN A TEN TON ROLLER, AND COMPACTED TRUE TO LINE AND GRADE, TO 95% OF MAXIMUM DENSITY. ANY DEPRESSIONS THAT APPEAR DURING AND AFTER ROLLING SHALL BE FILLED WTIH ADDITIONAL GRAVEL AND RE-ROLLED UNTIL THE SURFACE IS TRUE. AT THE TIME OF PAVING, GRAVEL SHALL BE AT OPTIMUM MOISTURE CONTENT, AND SHALL BE AT LEAST 95% OF MAXIMUM DRY DENSITY. THE GRAVEL SUB-BASE SURFACE SHALL BE TRANSVERSELY SLOPED TO PRODUCE A CROWN OF 1/4" PER FOOT. AT THE COMPLETION OF THE CROWN SLOPE ON THE SUB-BASE SURFACE, ALL PERMANENT MONUMENTS ARE TO BE STAKED AND THEN INSTALLED.

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TENS OF FASEMENTS TO BE DECORDED

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GRAFTON

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ns&t group, inc.

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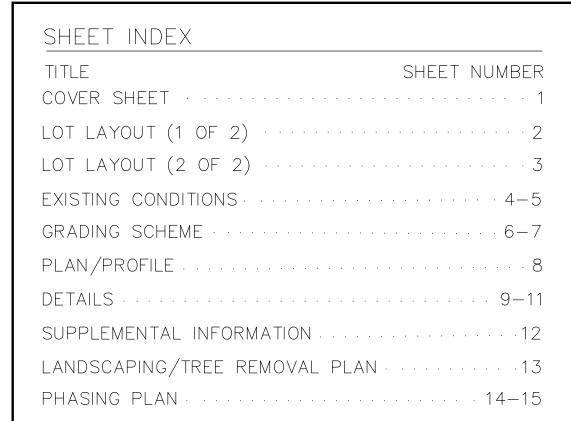
ABBY WOODS

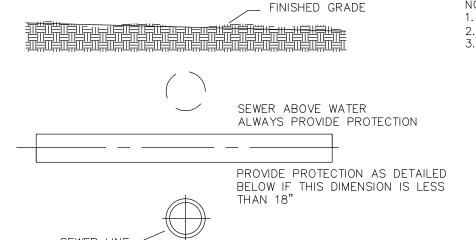
18 CARROLL ROAD

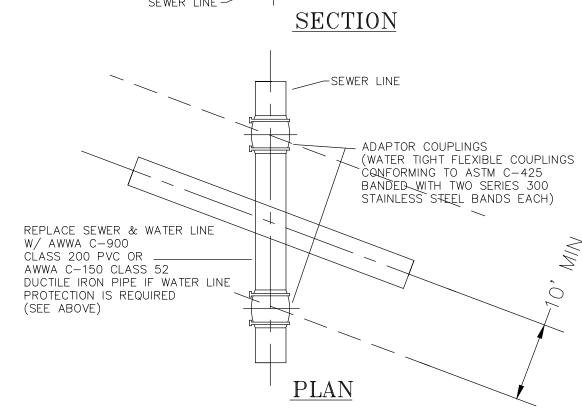
APPLICANT/OWNER: CENTRAL MASSACHUSETTS HOME BUILDERS LLC 125 OLEAN STREET WORCESTER, MA 01602

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ECKED:	DJT, HH	JOB#:	2650	DWG#:	4391

PLAN / PROFILE





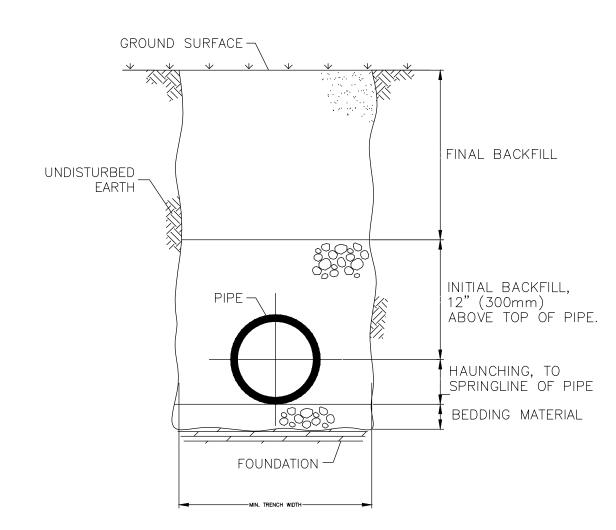


WHEN IT IS NOT POSSIBLE TO ACHIEVE 10' HORIZ.; OR 18" VERT. SEPARATION (18" BETWEEN BOTTOM OF WATER MAIN AND TOP OF SEWER), BOTH THE WATER MAIN AND THE SEWER MAIN SHALL BE CONSTRUCTED OF MACHANICAL JOINT CEMENT—LINED DUCTILE IRON PIPE OR ANOTHER EQUIVALENT THAT IS WATERTIGHT AND STRUCTURALLY SOUND. BOTH PIPES SHALL BE PRESSURE TESTED TO 150 PSI TO ENSURE WATER TIGHTNESS.

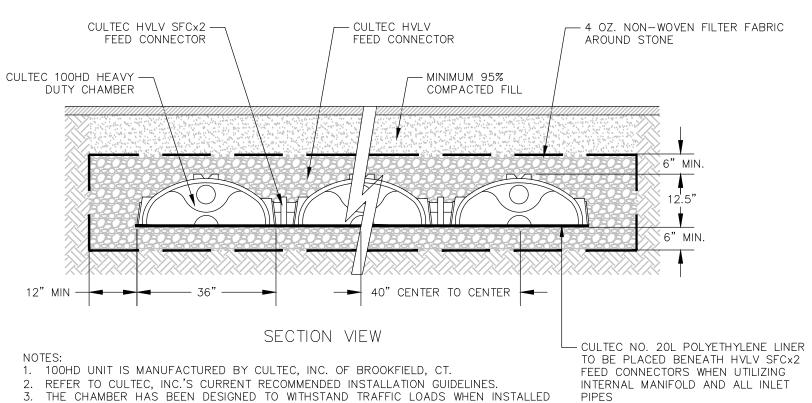
SEWER CROSSING DETAIL

N.T.S.

TRENCH INSTALLATION DETAIL

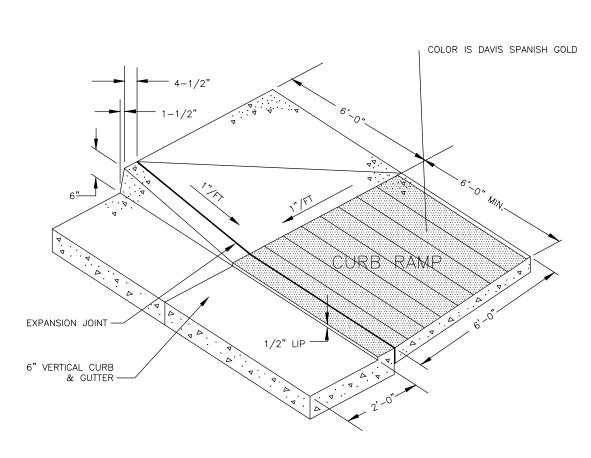


TYPICAL TRENCH CROSS—SECTION (N.T.S.)



CULTEC CONTRACTOR 100 HD DETAIL

ACCORDING TO CULTEC'S RECOMMENDED INSTALLATION INSTRUCTIONS.



NOTE:
MIDBLOCK RAMP IS SAME AS ABOVE WITH 10 FOOT TRANSITIONS
TO SIDEWALKS OF A DIFFERING DIMENSION OR A DETACHED WALK.

CURB RAMP BARRIER CURB & WALK

ANY OTHER DELETERIOUS MATERIAL) UNIFORMLY DISTRIBUTED AND THOROUGHLY COMPACTED. WHEN SUITABLE BACKFILLING MATERIALS CANNOT BE OBTAINED FROM EXCAVATION, THE MATERIAL SHALL CONSIST OF SATISFACTORY BORROW.

B) MECHANICAL TAMPERS SHALL BE USED IN COMPACTING BACKFILL FOR TRENCHES, AND IN HARD TO REACH AREAS AROUND MASONRY.

C) NO BACKFILL WHATEVER SHALL BE PLACED ON OR AGAINST STRUCTURES, PIPES, OR OTHER MASONRY, UNTIL PERMITTED BY THE PLANNING BOARD. FILL SHALL BE FORMED OF SUCCESSIVE LAYERS NOT MORE THAN SIX INCHES (6") IN DEPTH, UNIFORMLY DISTRIBUTED AND EACH LAYER THOROUGHLY COMPACTED.

D) NO LOAD GREATER THAN EIGHT (8) TONS SHALL BE MOVED OVER ANY PIPE UNTIL A FULLY COMPACTED BACKFILL OF AT LEAST TWO FEET (2") HAS BEEN PLACED OVER THE TOP OF THE PIPE. COMPLIANCE WITH THIS REQUIREMENT IS NOT TO BE CONSTRUED AS RELIEVING THE CONTRACTOR OF ANY RESPONSIBILITY CONCERNING DAMAGE TO THE PIPE.

E) MATERIAL USED FOR BACKFILLING TO A POINT TWO FEET (2") OVER THE PIPE SHALL CONTAIN NO STONES LARGER THAN THREE INCHES (3") IN GREATEST DIMENSION.

F) BACKFILL BELOW THE HAUNCHES SHALL BE PLACED IN SIX INCH (6") LAYERS AND COMPACTED SIMULTANEOUSLY ON BOTH SIDES OF THE PIPE WITH RAILROOT TAMPERS OR APPROVED MECHANICAL RAMMERS WHICH SHALL NOT COME IN CONTACT WITH THE PIPE. BACKFILL ABOVE THE HAUNCHES SHALL BE PLACED IN SIX INCH (6") LAYERS AND COMPACTED AS DIRECTED. BACKFILL MATERIAL SHALL BE MOIST PRIOR TO AND DURING COMPACTED AS DIRECTED. BACKFILL MATERIAL FOR THE PIPE BEDDING SHALL CONSIST OF GRAVEL BORROW, SCREENED GRAVEL,

A) ALL BACKFILLING SHALL CONSIST OF GRANULAR MINERAL SOIL MATERIAL (EXCLUDING ORGANIC

MÁTTER, BUILDING RUBBLE, SOLID WASTE, BOULDERS LARGER THAN 18 INCH ÌN ANY DIMENSION, OR

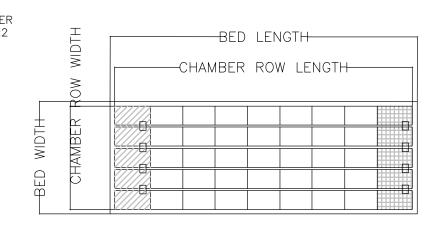
BACKFILLING FOR STRUCTURES AND PIPES

THE HAUNCHES SHALL BE PLACED IN SIX INCH (6") LAYERS AND COMPACTED AS DIRECTED.

BACKFILL MATERIAL SHALL BE MOIST PRIOR TO AND DURING COMPACTION.

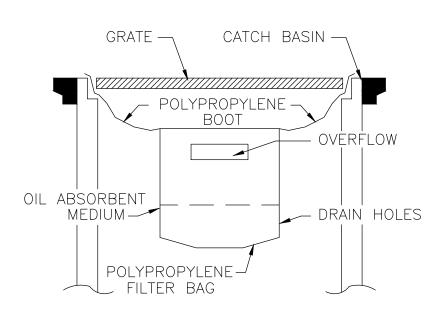
G) BACKFILL MATERIAL FOR THE PIPE BEDDING SHALL CONSIST OF GRAVEL BORROW, SCREENED GRAVEL, OR CRUSHED STONE NO GREATER THAN ONE— AND—A—HALF—INCH (1 1/2") GRADATION TO TWELVE INCHES (12") OVER THE CROWN OF THE PIPE. THE MATERIAL EXCAVATED FROM THE TRENCH MAY BE USED FOR THE PIPE BEDDING IF IT IS OF ACCEPTABLE GRADE GRAVEL AND APPROVED BY THE PLANNING BOARD. IF DIRECTED BY THE PLANNING BOARD, BACKFILL MATERIAL ABOVE THE PIPE BEDDING SHALL CONSIST OF GRAVEL BORROW. BACKFILL MATERIAL FOR SEWER PIPE BEDDING SHALL CONSIST OF SCREENED GRAVEL TO TWELVE INCHES (12") OVER THE CROWN OF THE PIPE, AS REQUIRED BY THE BOARD OF SEWER COMMISSIONERS.

H) IN ALL CASES THE FILLING MATERIAL SHALL BE THOROUGHLY COMPACTED. PUDDLING THE BACKFILL

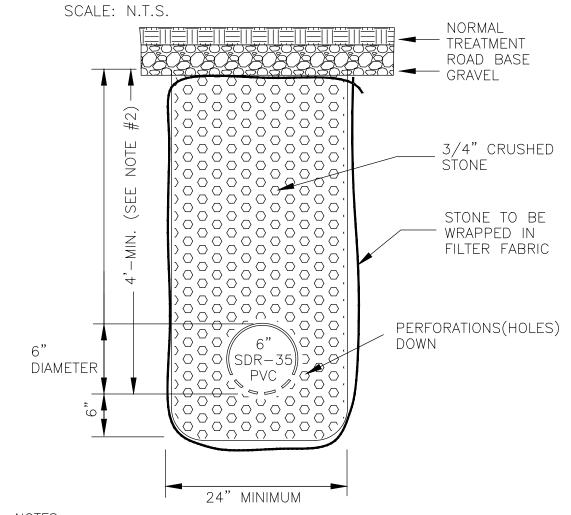


BED AREA REQUIRED 148.75 SQ. FEET TOTAL NUMBER OF CHAMBERS 4 CHAMBERS

CULTEC CONTRACTOR 100 HD CHAMBER & BED DETAIL

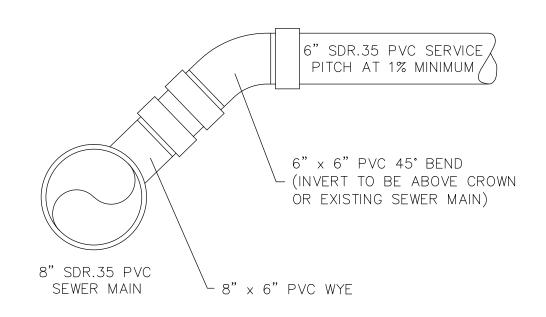


OIL & SEDIMENT PROTECTION AT CATCH BASINS WITHIN 100'

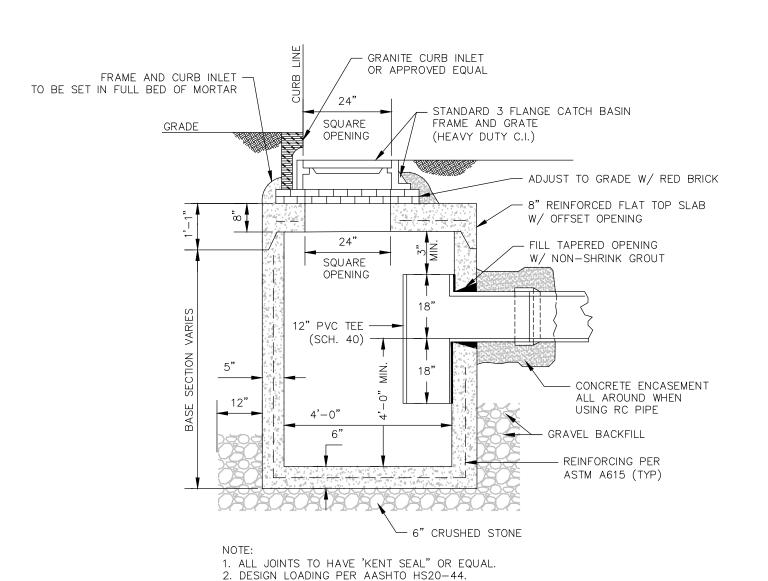


SUBDRAINS SHALL BE 6 INCH PERFORATED SDR 35 PVC, BEDDED IN CRUSHED STONE, OF 3/4 INCH GRADATION, IN A TWO (2) FOOT WIDE DRAIN TRENCH FILLED WITH SUCH CRUSHED STONE. CRUSHED STONE SHALL EXTEND HORIZONTALLY AND VERTICALLY TO MEET EITHER THE DRAINAGE LAYER OR THE GRAVEL SUB-BASE OF THE ROAD. CRUSHED STONE SHALL BE WRAPPED IN A SYNTHETIC, NON-WOVEN GEOTEXTILE FABRIC, WITH GEOTEXTILE OPENING SIZE OF 0.21 MM OR AS APPROPRIATE FOR THE SOIL TYPE. SUBDRAINS SHALL BE 48 INCHES BELOW FINISH GRADE AS MEASURED AT THE INVERT OF THE PIPE, AND SHALL BE LOCATED OUTSIDE THE EDGE OF PAVEMENT (BUT WITHIN THE ROAD RIGHT OF WAY) ON BOTH SIDES OF THE ROAD. 5.4.3.2 CLEANOUTS SHALL BE LOCATED NOT MORE THAN 150 FEET FROM EACH RECEIVING STRUCTURE, AND SHALL HAVE CAST IRON COVERS SET TO FINISH GRADE. CLEANOUT TO BE LOCATED AT THE UP-GRADIENT END OF THE SUBDRAIN.

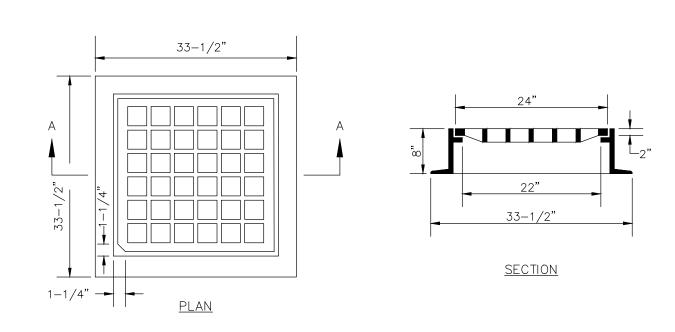
SUBDRAIN CROSS SECTION (NOT TO SCALE)



SEWER SERVICE CONNECTION DETAIL SCALE: N.T.S.



PRECAST CONCRETE CATCH BASIN WITH CURB INLET DETAIL



NOTES: 1. FRAME AND GRATE SHALL BE RATED FOR H-20 LOADING
2. MIN. FRAME WEIGHT
4 FLANGE 295 LBS.

3 FLANGE 265 LBS.
3. USE 3 FLANGE FRAMES AT CURB INLETS.

MUNICIPAL STANDARD

CATCH BASIN FRAME & GRATE

SCALE: NOT TO SCALE

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TOWN CLERK

OF THE TOWN CLERK

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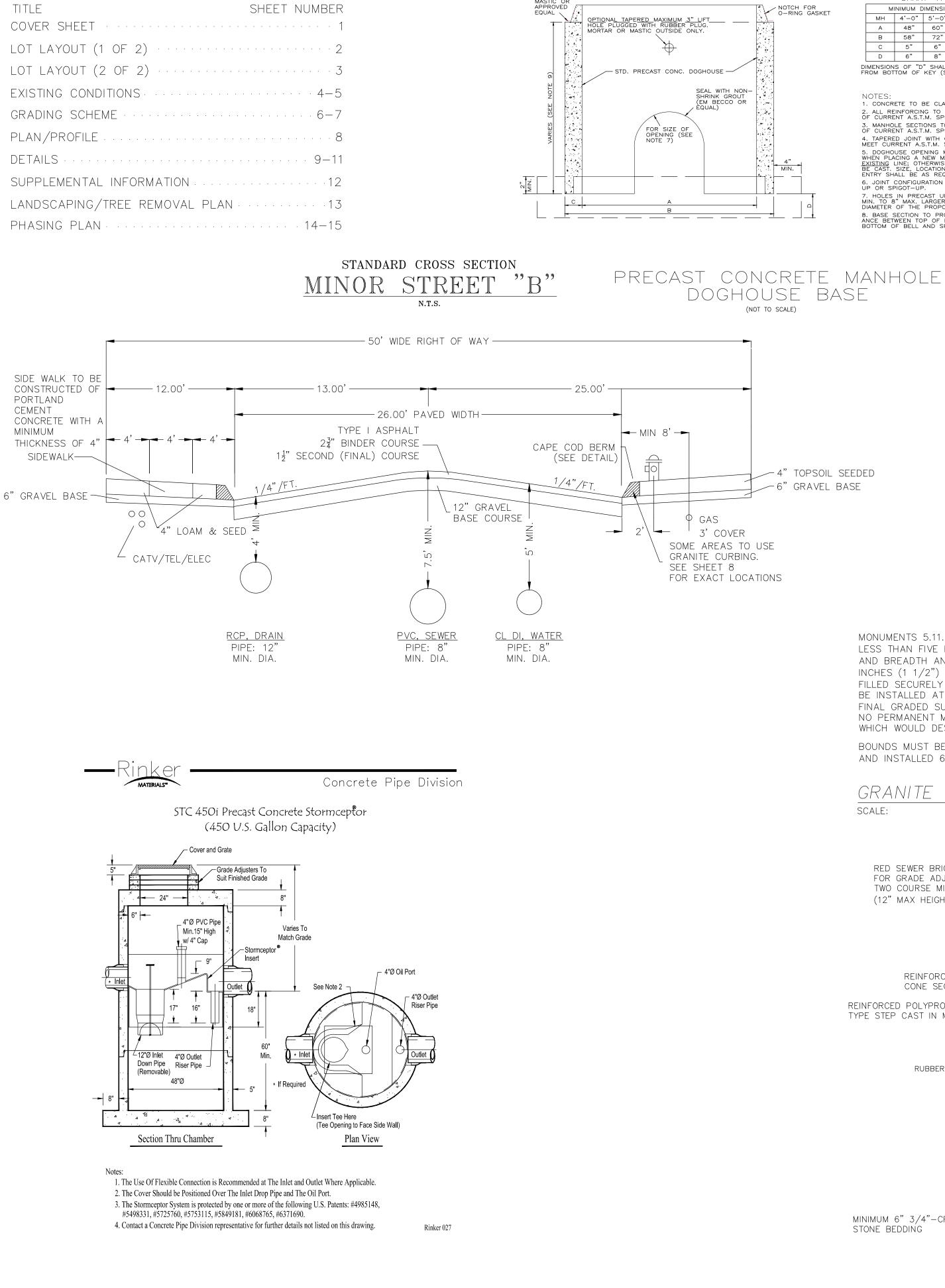
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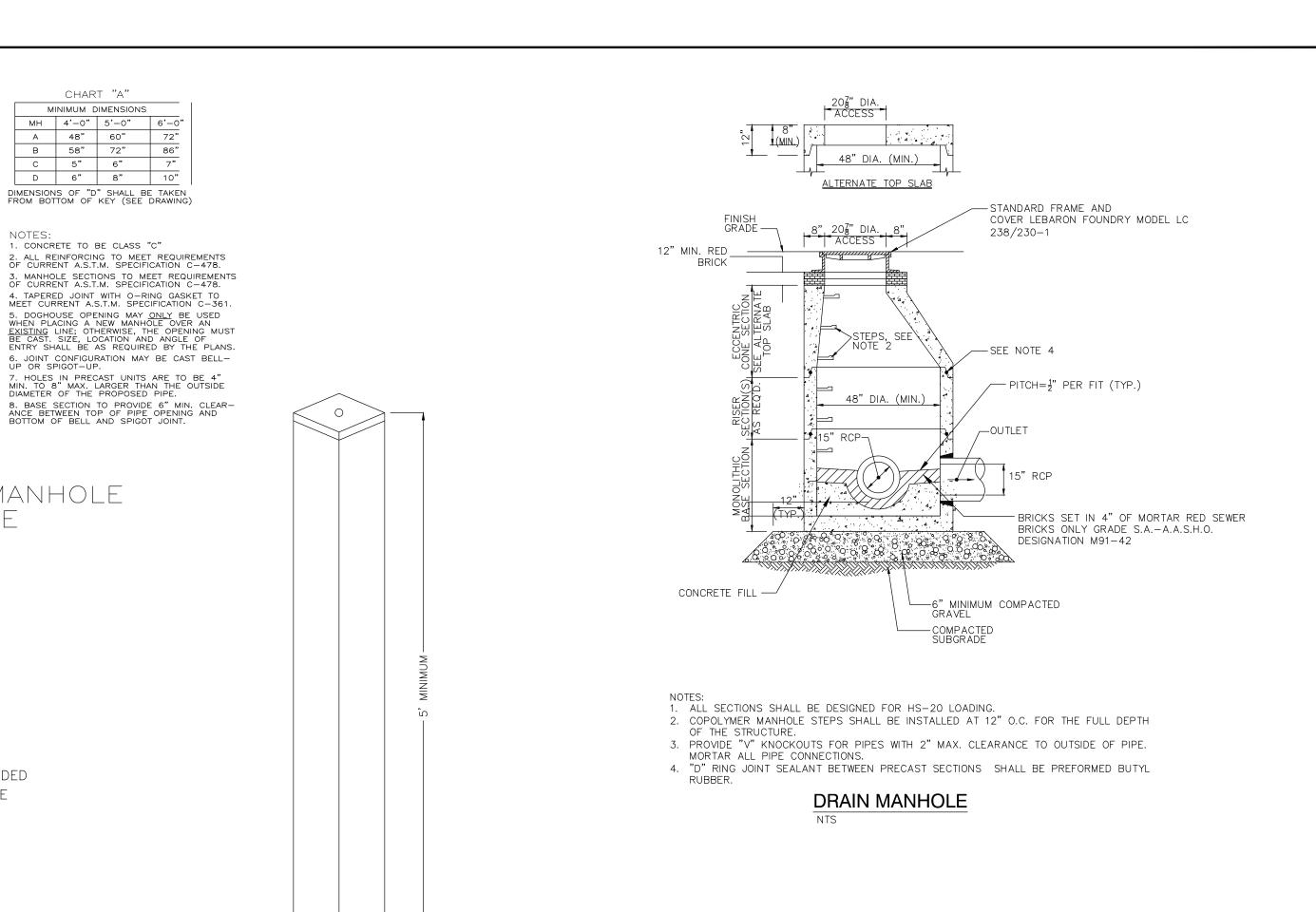
DETAIL SHEET







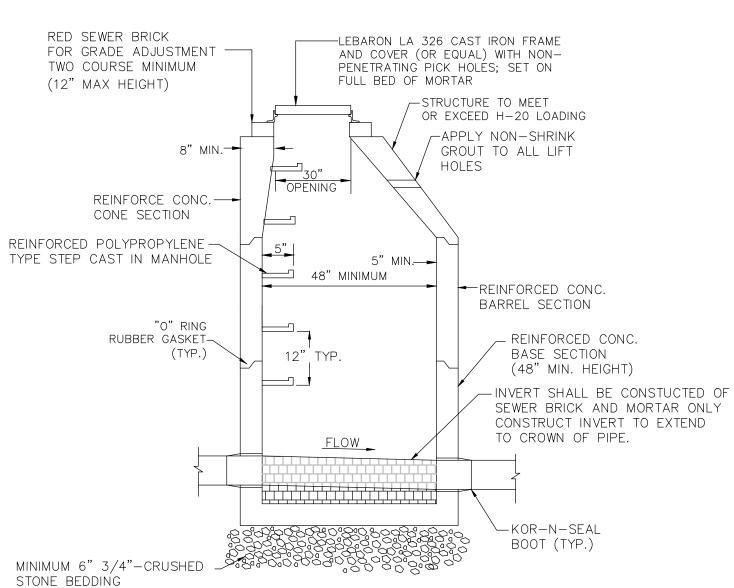
SHEET INDEX



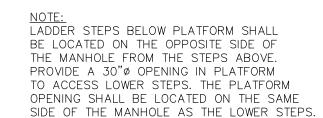
MONUMENTS 5.11.1 MONUMENTS SHALL BE A STANDARD PERMANENT GRANITE OF NOT LESS THAN FIVE FEET (5') IN LENGTH AND NOT LESS THAN SIX INCHES (6") IN WIDTH AND BREADTH AND A ONE-HALF INCH (1/2") DIAMETER HOLE ONE AND ONE-HALF INCHES (1 1/2") DEEP SHALL BE DRILLED IN THE CENTER OF THE TOP SURFACE AND FILLED SECURELY WITH A LEAD PLUG. (SECTION 710). 5.11.2 SAID MONUMENTS SHALL BE INSTALLED AT THE TIME OF FINAL GRADING WITH THE TOP FLUSH WITH THE TOP FINAL GRADED SURFACE. (PLATES 506.1.0 AND 506.2.0 CONSTRUCTION MANUAL).5.11.4 NO PERMANENT MONUMENTS SHALL BE INSTALLED UNTIL ALL ROAD CONSTRUCTION WHICH WOULD DESTROY OR DISTURB THE MONUMENTS IS COMPLETED.

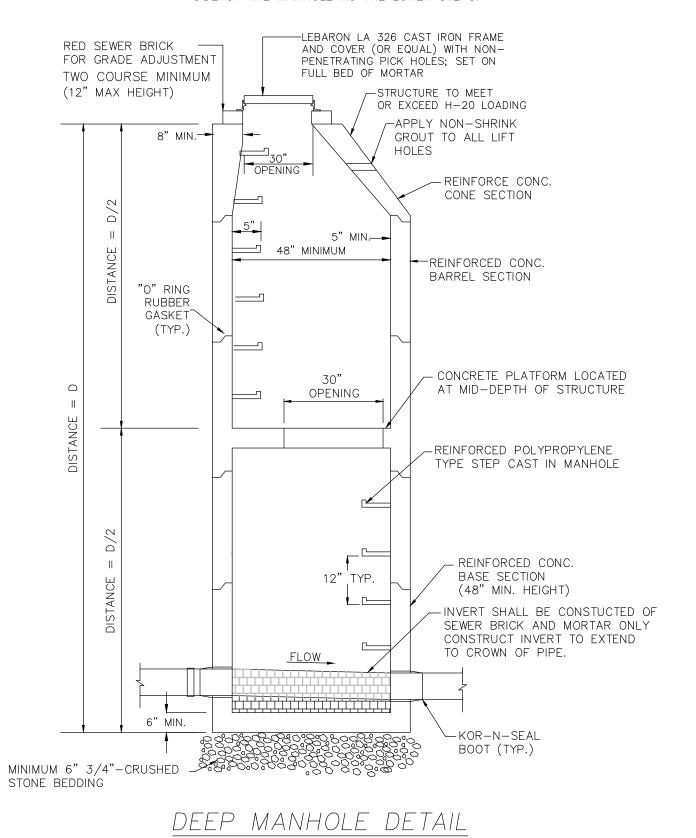
BOUNDS MUST BE INSTALLED FLUSH TO THE FINISHED SURFACE IN GRASSED AREAS AND INSTALLED 6" TO 9" ABOVE THE FINISHED SURFACE IN WOODED AREAS.

GRANITE MONUMENT



SCALE: NO SCALE





SCALE:

NOTES:

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CONTROL LAW IS REQUIRED

DATE: BEING A MAJORITY OF THE BOARD





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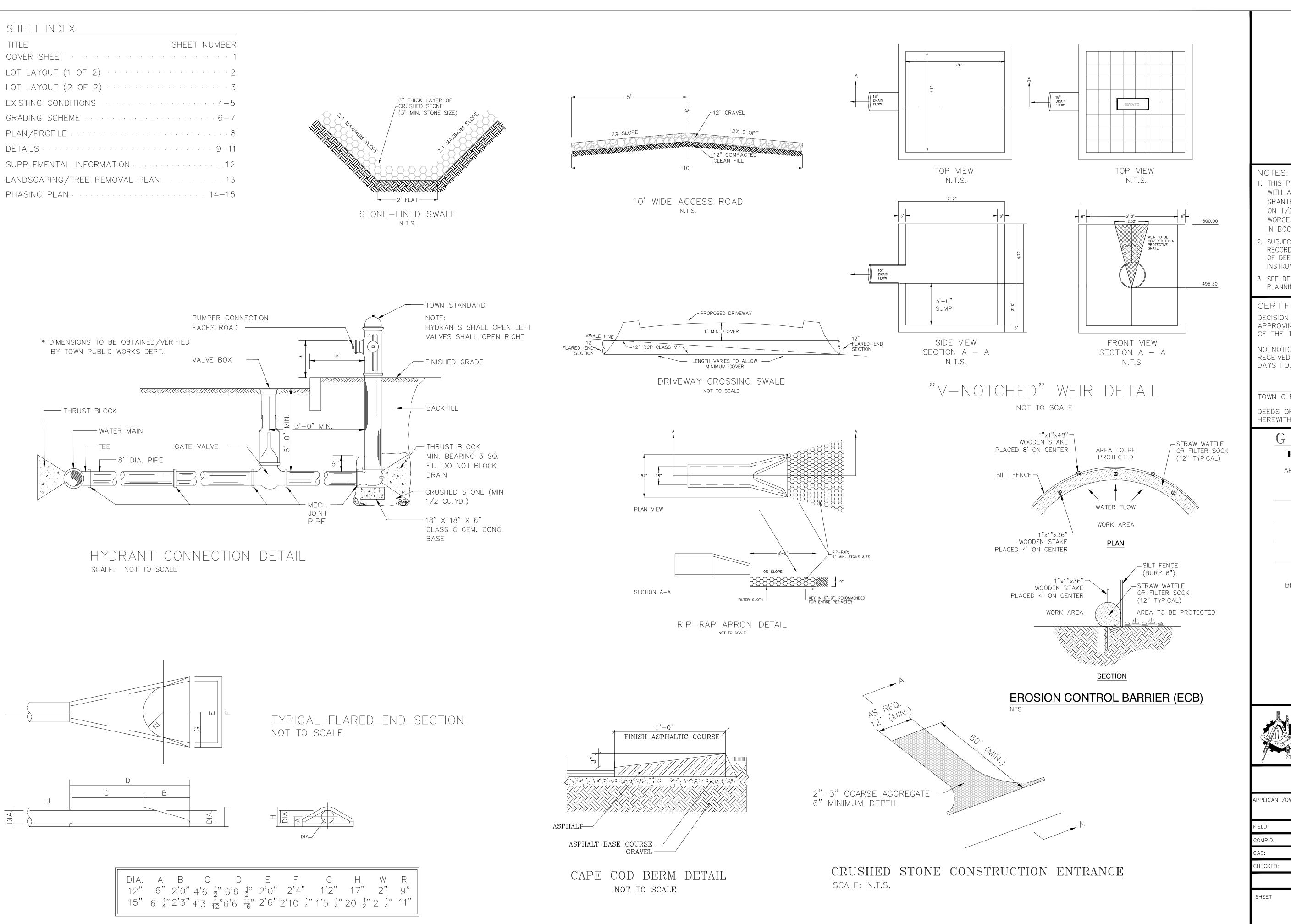
PROFESSIONAL CIVIL ENGINEERS & LAND SURVEYORS 75 HAMMOND STREET - 2ND FLOOR WORCESTER, MASSACHUSETTS 01610-1723 PHONE: 508-757-4944 EMAIL: INFO@HSTGROUP.NET FAX: 508-752-8895 WWW.HSTGROUP.NET

ABBY WOODS 18 CARROLL ROAD

APPLICANT/OWNER: CENTRAL MASSACHUSETTS HOME BUILDERS LLC 125 OLEAN STREET WORCESTER, MA 01602

FLD.BOOK: CALE: AS SHOWN FLD.PAGE: CARRWRK2-DEF-REV.DW 2650 DWG#: DJT, HH JOB#:

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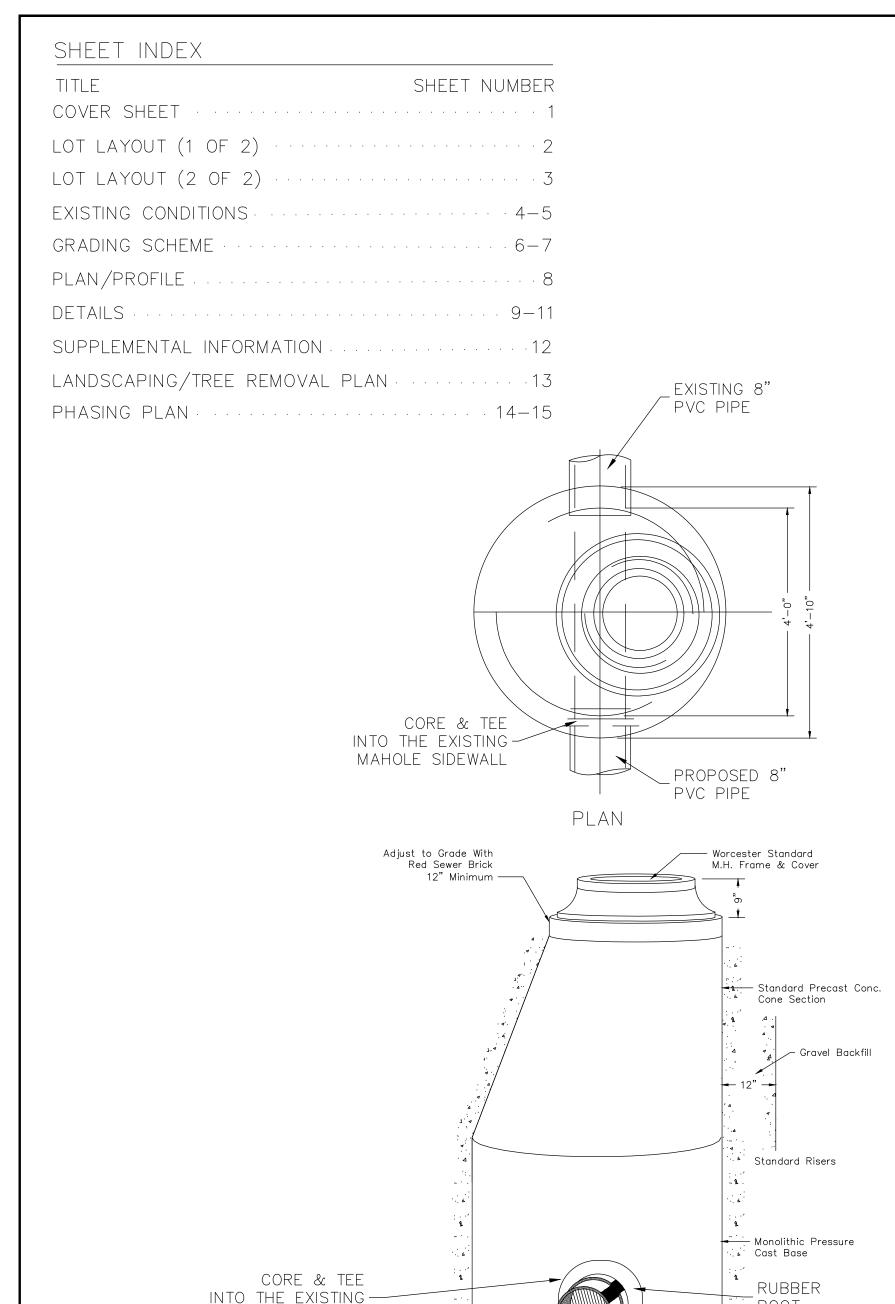
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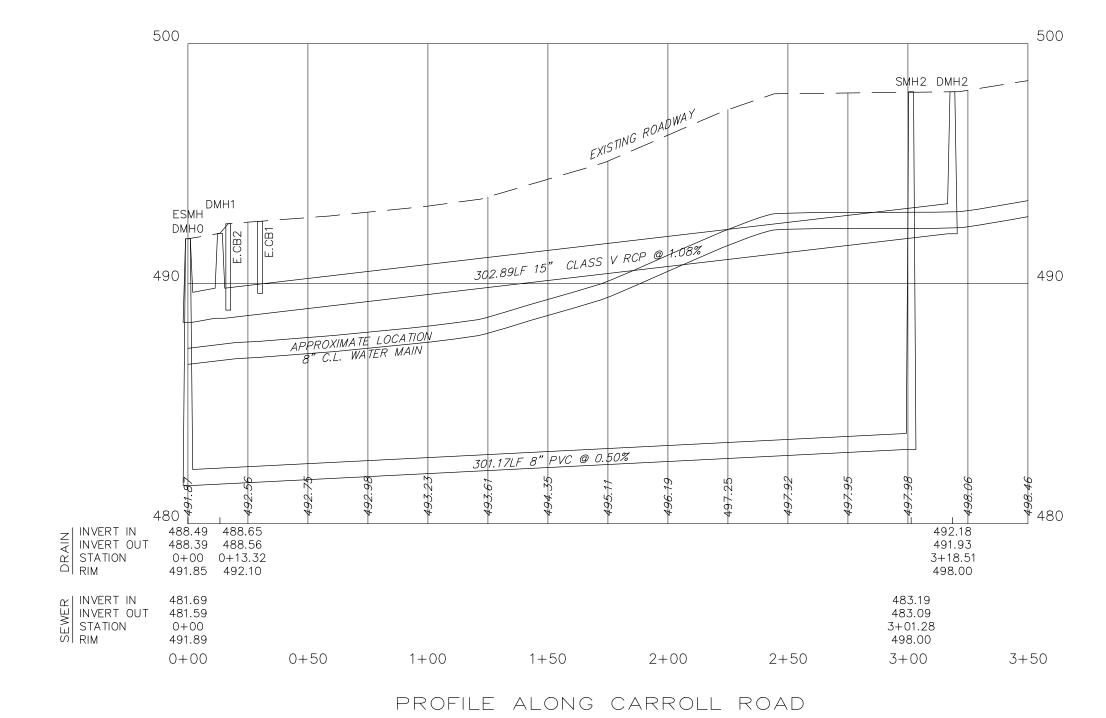


SECTION A-A

BOOT

PROPOSED 8"

PVC PIPE



VERTICAL SCALE: 1" = 4' HORIZONTAL SCALE: 1" = 40'

LEAKAGE TEST PROCEDURES: (PER TOWN OF GRAFTON WASTEWATER TREATMENT FACILITY)

- A. GRAVITY SEWERS SHALL BE TESTED WITH LOW PRESSURE AIR.
- B. THE CONTRACTOR SHALL HAVE THE PROPER PLUGS, AND OTHER EQUIPMENT REQUIRED TO PERFORM ALL TESTS AS REQUIRED BY THE ENGINEER. TESTING OF EACH SECTION OF SEWER INSTALLED SHALL INCLUDE THE PORTIONS OF SERVICE CONNECTIONS THAT ARE TO BE INSTALLED UNDER THE CONTRACT.
- C. NO MORE THAN 1,000 FEET OF SEWER MAIN IS TO BE LAID BEFORE TESTING.
- D. AFTER COMPLETING BACKFILL OF THE WASTERWATER LINE, THE CONTRACTOR SHALL, AT HIS EXPENSE, CONDUCT A LINE ACCEPTANCE TEST USING LOW PRESSURE AIR. THE TEST SHALL BE PERFORMED ACCORDING TO THE STATED PROCEDURES AND IN THE PRESENCE OF THE ENGINEER.
- 1. FLUSH AND CLEAN THE LINE PRIOR TO TESTING, TO WET THE PIPE SURFACE AND CLEAN OUT DEBRIS.
- 2. ALL PNEUMATIC PLUGS SHALL BE SEAL TESTED BEFORE BEING USED IN THE ACTUAL TEST INSTALLATION. ONE (1) LENGTH OF PIPE SHALL BE LAID ON THE GROUND AND SEALED AT BOTH ENDS WITH THE PNEUMATIC PLUGS TO BE CHECKED. AIR SHALL BE INTRODUCED INTO THE PLUGS TO 25 PSIG. THE PLUGS SHALL HOLD AGAINST THIS PRESSURE WITHOUT BRACING AND WITHOUT MOVEMENT OF THE PLUGS OUT OF THE PIPE.
- 3. AFTER A MANHOLE TO MANHOLE REACH OF THE PIPE HAS BEEN BACKFILLED AND CLEANED, AND THE PNEUMATIC PLUGS ARE CHECKED BY THE ABOVE PROCEDURE, THE PLUGS SHALL BE PLACED IN THE LINE AT EACH MANHOLE AND INFLATED TO 25 PSIG. LOW PRESSURE AIR SHALL BE INTRODUCED INTO THIS SEALED LINE UNTIL THE INTERNAL AIR PRESSURE OF ANY GROUNDWATER THAT MAY BE OVER THE PIPE. AT LEAST TWO MINUTES SHALL BE ALLOWED FOR THE AIR PRESSURE TO STABILIZE.
- 4. AFTER THE STABILIZATION PERIOD (3.5 PSIG MINIMUM PRESSURE ON THE PIPE), THE AIR HOSE FROM THE CONTROL PANEL TO THE AIR SUPPLY SHALL BE DISCONNECTED. THE PORTION OF LINE BEING TESTED SHALL BE TERMED "ACCEPTABLE" IF THE TIME REQUIRED IN MINUTES FOR THE PRESSURE TO DECREASE FROM 3.5 TO 2.5 PSIG (GREATER THAN THE AVERAGE BACK PRESSURE OF ANY GROUNDWATER THAT MAY BE OVER THE PIPE) SHALL NOT BE LESS THAN THE TIME SHOWN FOR THE GIVEN DIAMETERS IN THE FOLLOWING TABLE.

SPECIFICATION TIME REQUIRED FOR A 1.0 PSIG PRESSURE DROP* FOR SIZE AND LENGTH OF PIPE INDICATED

	TON SIZE AND	LLINGTH OF THE INDICA	ILU
PIPE DIA. (IN.)	MIN. TIME (MIN: SEC)	LENGTH FOR MIN. TIME (FT.)	TIME FOR LONGER LENGT (SEC.)
4	3: 46	597	.380 L
6	5: 40	398	.854 L
8	7: 34	298	1.520 L
10	9: 26	239	2.374 L
12	11: 20	199	3.474 L
15	14:10	159	5.342 L
18	17:00	133	7.692 L
21	19:50	114	10.470 L
24	22: 40	99	13.674 L
27	25: 30	88	17.306 L
30	28: 20	80	21.366 L
33	31:10	72	25.852 L
36	34: 00	66	30.768 L

* TIMES SHOULD BE HALVED FOR A 0.5 PSIG PRESSURE DROP.

- 5. IN AREAS WHERE THE GROUNDWATER IS KNOWN TO EXIST, THE CONTRACTOR SHALL INSTALL A ONE-HALF INCH DIAMTER CAPPED PIPE NIPPLE, APPROX. 10" LONG THROUGH THE MANHOLE WALL ON TOP OF ONE OF THE SEWER LINES ENTERING THE MANHOLE. THIS SHALL BE DONE AT THE TIME THE SEWER LINE IS INSTALLED. IMMEDIATELY PRIOR TO THE PERFORMANCE OF THE LINE ACCEPTANCE TEST, THE GROUNDWATER SHALL BE DETERMINED BY REMOVING THE PIPE CAP, BLOWING AIR THROUGH THE PIPE NIPPLE INTO THE GROUND SO AS TO CLEAR IT, AND THEN CONNECTING A CLEAR PLASTIC TUBE TO THE NIPPLE. THE HOSE SHALL BE HELD VERTICALLY AND A MEASUREMENT OF THE HEIGHT IN FEET SHALL BE DIVIDED BY 2.3 TO ESTABLISH THE POUNDS OF PRESSURE THAT WILL BE ADDED TO ALL READINGS. FOR EXAMPLE: IF THE HEIGHT OF WATER IS 11-1/2 FEET, THEN THE ADDED PRESSURE WILL BE 5 PSIG, AND THE 2.5 PSIG TEST PRESSURE WILLBE 7.5 PSIG. THE ALLOWABLE DROP OF ONE POUND AND THE TIMING REMAIN THE SAME.
- 6. IF THE INSTALLATION FAILS THE AIR TEST, THE CONTRACTOR SHALL AT HIS EXPENSE, DETERMINE THE SOURCE OF LEAKAGE. HE SHALL THEN REPAIR OR REPLACE ALL DEFECTIVE MATERIALS AND/OR WORKMANSHIP. THE LINE SHALL THEN BE RETESTED.

VACUUM TEST PROCEDURES:

- (PER TOWN OF GRAFTON WASTEWATER TREATMENT FACILITY)
- 1. THE TEST SHALL BE MADE USING AN INFLATABLE COMPRESSION BAND, VACUUM PUMP, AND APPURTENANCES SPECIFICALLY DESIGNED FOR TESTING MANHOLES. TEST PROCEDURES SHALL BE IN ACCORDANCE WITH THE EQUIPMENT MANUFACTURER'S RECOMMENDATIONS. CONTRACTOR SHALL BE FULLY FAMILIAR WITH VACUUM TESTING EQUIPMENT AND SHALL PROVIDE A MINIMUM OF 4 HOURS OF INSTRUCTION BY A FACTORY AUTHORIZED REPRESENTATIVE AT THE OUTSET OF THE PROJECT.
- 2. EACH MANHOLE SHALL BE TESTED IMMEDIATELY AFTER ASSEMBLY INCLUDING THE CONNECTION OF PIPES AND PRIOR TO BACKFILLING.
- 3. ALL LIFT HOLES SHALL BE PLUGGED WITH NONSHRINK GROUT AND ALL PIPES ENTERING THE MANHOLE SHALL BE PLUGGED AND BRACED TO PREVENT THE PLUG FROM BEING DRAWN INTO THE
- 4. AFTER THE TEST EQUIPMENT IS IN PLACE THE TEST SHALL BE RUN AT THE FOLLOWING RATE AND TEST TIMES:
- A. FOR 4.0 FT. AND 5.0 FT. DIAMTER MANHOLES.
- (1) INITIAL PRESSURE TEST 10—IN Hg.
- (2) TEST TIME 1-IN Hg DROP TO 9-IN Hg IN 1 MINUTE MINIMUM ALLOWABLE, FOR 0-10 FT DEEP MANHOLES, 1 MINUTE 15 SECONDS MINIMUM ALLOWABLE FOR 10-15 FT DEEP MANHOLES; 1 MINUTE 30 SECONDS MINIMUM ALLOWABLE FOR 15-25 FT DEEP MANHOLES.
- B. IF THE PRESSURE DROP EXCEEDS 1-IN Hq IN THE SPECIFIED TIME THE MANHOLE SHALL BE REPAIRED IN ACCORDANCE WITH APPROVED PROCEDURES AND RETESTED.
- C. IF A MANHOLE FAILS TO MEET A 1-IN Hg DROP IN THE SPECIFIED TIME AFTER REPAIRS THE UNIT SHALL BE WATER EXFILTRATION TESTED AND REPAIRED AS NECESSARY.

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PROFESSIONAL CIVIL ENGINEERS & LAND SURVEYORS 75 HAMMOND STREET - 2ND FLOOR WORCESTER, MASSACHUSETTS 01610-1723 PHONE: 508-757-4944 EMAIL: INFO@HSTGROUP.NET FAX: 508-752-8895 WWW.HSTGROUP.NET

ABBY WOODS 18 CARROLL ROAD

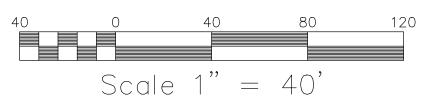
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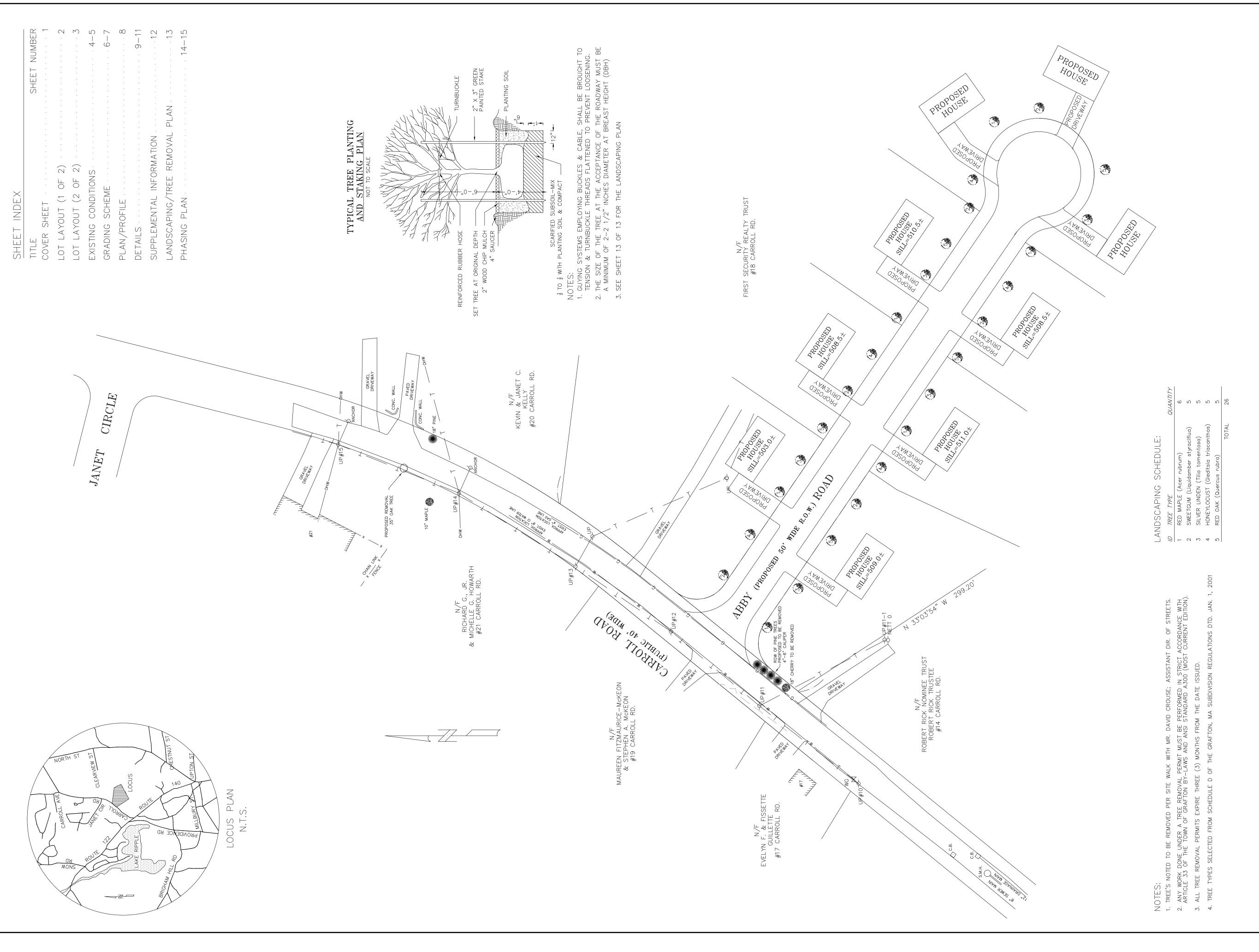
SUPPLEMENTAL INFORMATION







MAHOLE SIDEWALL



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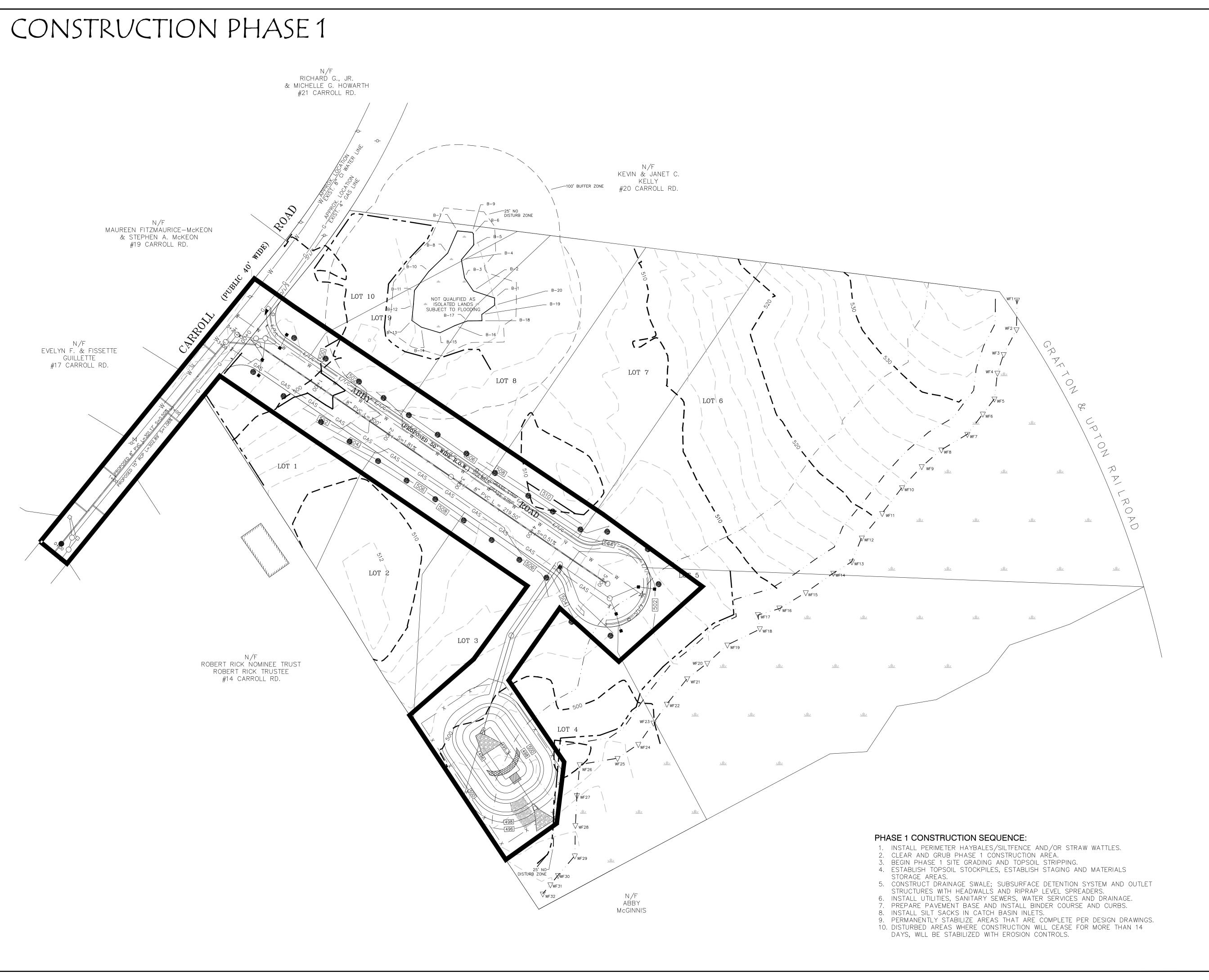
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LANDSCAPING/TREE REMOVAL PLAN





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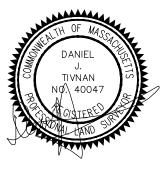
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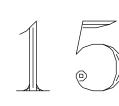
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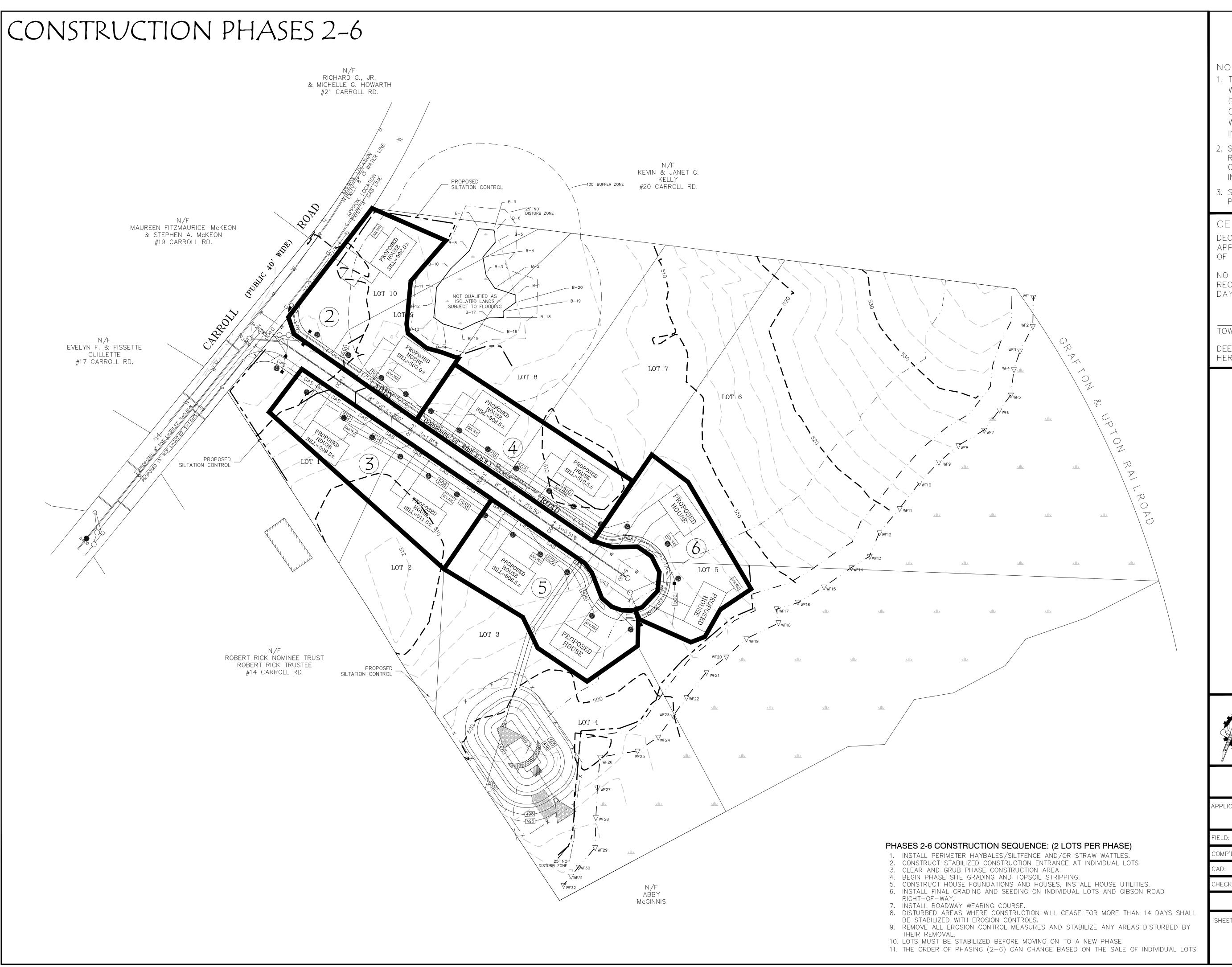
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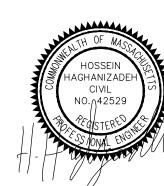
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